

WEST Search History

DATE: Tuesday, December 05, 2006

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		<i>DB=PGPB,USPT; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L7	L2 with microorganisms	3
<input type="checkbox"/>	L6	L2 and circulat\$ and sterilization	4
<input type="checkbox"/>	L5	L2 same circulat\$ same sterilization	0
<input type="checkbox"/>	L4	L2 with circulat\$ same sterilization	0
<input type="checkbox"/>	L3	L2 with circulat\$ with microorganisms	0
<input type="checkbox"/>	L2	L1 with (pieces or objects)	747
<input type="checkbox"/>	L1	degreasing or deoiling	12200

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 6451125 B1

L7: Entry 1 of 3

File: USPT

Sep 17, 2002

US-PAT-NO: 6451125

DOCUMENT-IDENTIFIER: US 6451125 B1

**** See image for Certificate of Correction ****

TITLE: Parts washing system

DATE-ISSUED: September 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McClure; James C.	Norcross	GA		
McNally; Thomas W.	Norcross	GA		
Strange; J. Leland	Duluth	GA		

US-CL-CURRENT: 134/10; 134/18, 134/25.4, 210/610, 435/264

ABSTRACT:

Provided is a parts washer that includes a multi-tiered basin, a cleaning fluid and a biological component, living within the fluid, that breaks down organic waste. The multi-tiered basin includes a sink member with a false bottom, and a support grid and filter are interposed between the false bottom and a bottom panel of the sink member. The false bottom, support grid, and filter are readily removable from the sink member. The tank is partially filled with the cleaning fluid and a pump and conduit assembly direct a flow of the cleaning fluid to the basin. The cleaning fluid discharged into the basin flows through a drain hole in the false bottom, through the filter and support grid, and then through a drain hole in the bottom panel of the sink member back into the tank for reuse. The cleaning fluid includes, at least, a surfactant that functions to remove organic waste from the parts being washed. The biological component within the cleaning fluid includes nonpathogenic microorganisms that break down the organic waste. The cleaning fluid is not toxic to the microorganisms. The pump and conduit assembly, in addition to aiding in the removal of organic waste, functions to aerate the cleaning fluid to maintain a proper environment for the microorganisms. A heater, thermostat, and level control assembly function to maintain the cleaning fluid within a certain temperature range so as to aid in the removal of organic waste and maintain a proper environment for the microorganisms.

22 Claims, 4 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RMIC	Draw De
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☐ 2. Document ID: US 5532162 A

L7: Entry 2 of 3

File: USPT

Jul 2, 1996

US-PAT-NO: 5532162

DOCUMENT-IDENTIFIER: US 5532162 A

TITLE: Elimination of used degreasing solution through biological degradation

DATE-ISSUED: July 2, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Aamot; Haldor	Schwieberdingen			DE

US-CL-CURRENT: 435/264; 210/601, 210/621, 435/262

ABSTRACT:

A method for eliminating used aqueous degreasing or cleaning solutions in a closed rinsing system where the contaminated solution with its impurities and other agents is rinsed off the surfaces of the cleaned goods and organic matter including tensides is degraded by microorganisms contained within the rinse system. Further, a method for cleaning goods is provided which comprises cleaning these goods in a cleaning or degreasing system (either conventional or biologically active) followed by rinsing them in a closed system wherein during the rinsing step the cleaning solution and impurities are rinsed off the surfaces of the goods and organic matter including tensides is degraded by microorganisms contained within the rinse system. Finally spent degreasing and cleaning solution can be fed into the rinse bath where organic matter, contained in the solution, is degraded by the microorganisms, thus reducing the liquid waste load.

29 Claims, 1 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RMIC	Draw De
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☐ 3. Document ID: US 4395365 A

L7: Entry 3 of 3

File: USPT

Jul 26, 1983

US-PAT-NO: 4395365

DOCUMENT-IDENTIFIER: US 4395365 A

TITLE: Metal cleaning composition containing a fatty acid succrose ester and other detergent components

DATE-ISSUED: July 26, 1983

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hasegawa; Masami	Fuji			JP
Kato; Koji	Uozu			JP

US-CL-CURRENT: 510/254; 510/255, 510/258, 510/274, 510/424, 510/470

ABSTRACT:

An industrial detergent useful for degreasing and cleansing of metal parts, which is in the form of an aqueous solution and comprises 3 to 20 parts by weight of a fatty acid sucrose ester as a nonionic surfactant, 3 to 15 parts by weight of polyoxyethylene alkyl ether also as a nonionic surfactant, 1 to 10 parts by weight of a chelating agent for metal ions typified by EDTA, 1 to 5 parts by weight of a petroleum sulfonic acid salt, preferably an alkanolamine salt, as a rust-inhibiting agent and 3 to 10 parts by weight of propylene glycol. Optionally small amounts of sorbitol and/or CMC may be added. This detergent is weak in alkalinity but strong in deterging power, and the organic surfactants are harmless to the human body and can be decomposed by microorganisms.

14 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWNC	Draw De
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Term	Documents
MICROORGANISMS	98062
MICROORGANISM	45683
(2 WITH MICROORGANISMS).PGPB,USPT.	3
(L2 WITH MICROORGANISMS).PGPB,USPT.	3

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